

2SHB 1906 - S COMM AMD
By Committee on Ways & Means

ADOPTED AND ENGROSSED 4/11/07

1 Strike everything after the enacting clause and insert the
2 following:

3 "NEW SECTION. **Sec. 1.** A new section is added to chapter 28A.305
4 RCW to read as follows:

5 MATHEMATICS AND SCIENCE STANDARDS AND CURRICULUM. (1) The
6 activities in this section revise and strengthen the state learning
7 standards that implement the goals of RCW 28A.150.210, known as the
8 essential academic learning requirements, and improve alignment of
9 school district curriculum to the standards.

10 (2) The state board of education shall be assisted in its work
11 under subsections (3) and (5) of this section by: (a) An expert
12 national consultant in each of mathematics and science retained by the
13 state board; and (b) the mathematics and science advisory panels
14 created under section 2 of this act, as appropriate, which shall
15 provide review and formal comment on proposed recommendations to the
16 superintendent of public instruction and the state board of education
17 on new revised standards and curricula.

18 (3) By September 30, 2007, the state board of education shall
19 recommend to the superintendent of public instruction revised essential
20 academic learning requirements and grade level expectations in
21 mathematics. The recommendations shall be based on:

22 (a) Considerations of clarity, rigor, content, depth, coherence
23 from grade to grade, specificity, accessibility, and measurability;

24 (b) Study of:

25 (i) Standards used in countries whose students demonstrate high
26 performance on the trends in international mathematics and science
27 study and the programme for international student assessment;

28 (ii) College readiness standards;

29 (iii) The national council of teachers of mathematics focal points

1 and the national assessment of educational progress content frameworks;
2 and

3 (iv) Standards used by three to five other states, including
4 California, and the nation of Singapore; and

5 (c) Consideration of information presented during public comment
6 periods.

7 (4) By January 31, 2008, the superintendent of public instruction
8 shall revise the essential academic learning requirements and the grade
9 level expectations for mathematics and present the revised standards to
10 the state board of education and the education committees of the senate
11 and the house of representatives as required by RCW 28A.655.070(4).
12 The superintendent shall adopt the revised essential academic learning
13 requirements and grade level expectations unless otherwise directed by
14 the legislature during the 2008 legislative session.

15 (5) By June 30, 2008, the state board of education shall recommend
16 to the superintendent of public instruction revised essential academic
17 learning requirements and grade level expectations in science. The
18 recommendations shall be based on:

19 (a) Considerations of clarity, rigor, content, depth, coherence
20 from grade to grade, specificity, accessibility, and measurability;

21 (b) Study of standards used by three to five other states and in
22 countries whose students demonstrate high performance on the trends in
23 international mathematics and science study and the programme for
24 international student assessment; and

25 (c) Consideration of information presented during public comment
26 periods.

27 (6) By December 1, 2008, the superintendent of public instruction
28 shall revise the essential academic learning requirements and the grade
29 level expectations for science and present the revised standards to the
30 state board of education and the education committees of the senate and
31 the house of representatives as required by RCW 28A.655.070(4). The
32 superintendent shall adopt the revised essential academic learning
33 requirements and grade level expectations unless otherwise directed by
34 the legislature during the 2009 legislative session.

35 (7)(a) By May 15, 2008, the superintendent of public instruction
36 shall present to the state board of education recommendations for no
37 more than three basic mathematics curricula each for elementary,
38 middle, and high school grade spans.

1 (b) By June 30, 2008, the state board of education shall provide
2 official comment and recommendations to the superintendent of public
3 instruction regarding the recommended mathematics curricula. The
4 superintendent of public instruction shall make any changes based on
5 the comment and recommendations from the state board of education and
6 adopt the recommended curricula.

7 (c) By May 15, 2009, the superintendent of public instruction shall
8 present to the state board of education recommendations for no more
9 than three basic science curricula each for elementary, middle, and
10 high school grade spans.

11 (d) By June 30, 2009, the state board of education shall provide
12 official comment and recommendations to the superintendent of public
13 instruction regarding the recommended science curricula. The
14 superintendent of public instruction shall make any changes based on
15 the comment and recommendations from the state board of education and
16 adopt the recommended curricula.

17 (e) In selecting the recommended curricula under this subsection
18 (7), the superintendent of public instruction shall provide information
19 to the mathematics and science advisory panels created under section 2
20 of this act, as appropriate, and seek the advice of the appropriate
21 panel regarding the curricula that shall be included in the
22 recommendations.

23 (f) The recommended curricula under this subsection (7) shall align
24 with the revised essential academic learning requirements and grade
25 level expectations. In addition to the recommended basic curricula,
26 appropriate diagnostic and supplemental materials shall be identified
27 as necessary to support each curricula.

28 (g) Subject to funds appropriated for this purpose and availability
29 of the curricula, at least one of the curricula in each grade span and
30 in each of mathematics and science shall be available to schools and
31 parents online at no cost to the school or parent.

32 (8) By December 1, 2007, the state board of education shall revise
33 the high school graduation requirements under RCW 28A.230.090 to
34 include a minimum of three credits of mathematics, one of which may be
35 a career and technical course equivalent in mathematics, and prescribe
36 the mathematics content in the three required credits.

37 (9) Nothing in this section requires a school district to use one
38 of the recommended curricula under subsection (7) of this section.

1 However, the statewide accountability plan adopted by the state board
2 of education under RCW 28A.305.130 shall recommend conditions under
3 which school districts should be required to use one of the recommended
4 curricula. The plan shall also describe the conditions for exception
5 to the curriculum requirement, such as the use of integrated academic
6 and career and technical education curriculum. Required use of the
7 recommended curricula as an intervention strategy must be authorized by
8 the legislature as required by RCW 28A.305.130(4)(e) before
9 implementation.

10 NEW SECTION. **Sec. 2.** A new section is added to chapter 28A.305
11 RCW to read as follows:

12 **ADVISORY PANELS.** (1) The state board of education shall appoint a
13 mathematics advisory panel and a science advisory panel to advise the
14 board regarding essential academic learning requirements, grade level
15 expectations, and recommended curricula in mathematics and science and
16 to monitor implementation of these activities. In conducting their
17 work, the panels shall provide objective reviews of materials and
18 information provided by any expert national consultants retained by the
19 board and shall provide a public and transparent forum for
20 consideration of mathematics and science learning standards and
21 curricula.

22 (2) Each panel shall include no more than sixteen members with
23 representation from individuals from academia in mathematics and
24 science-related fields, individuals from business and industry in
25 mathematics and science-related fields, mathematics and science
26 educators, parents, and other individuals who could contribute to the
27 work of the panel based on their experiences.

28 (3) Each member of each panel shall be compensated in accordance
29 with RCW 43.03.220 and reimbursed for travel expenses in accordance
30 with RCW 43.03.050 and 43.03.060. School districts shall be reimbursed
31 for the cost of substitutes for the mathematics and science educators
32 on the panels as required under RCW 28A.300.035. Members of the panels
33 who are employed by a public institution of higher education shall be
34 provided sufficient time away from their regular duties, without loss
35 of benefits or privileges, to fulfill the responsibilities of being a
36 panel member.

1 (4) Panel members shall not have conflicts of interest with regard
2 to association with any publisher, distributor, or provider of
3 curriculum, assessment, or test materials and services purchased by or
4 contracted through the office of the superintendent of public
5 instruction, educational service districts, or school districts.

6 (5) This section expires June 30, 2012.

7 NEW SECTION. **Sec. 3.** A new section is added to chapter 28A.300
8 RCW to read as follows:

9 AFTER-SCHOOL MATHEMATICS SUPPORT PROGRAM. (1) The after-school
10 mathematics support program is created to study the effects of
11 intentional, skilled mathematics support included as part of an
12 existing after-school activity program.

13 (2) The office of the superintendent of public instruction shall
14 provide grants to selected community-based, nonprofit organizations
15 that provide after-school programs and include support for students to
16 learn mathematics.

17 (3) Grant applicants must demonstrate the capacity to provide
18 assistance in mathematics learning in the following ways:

19 (a) Identifying the mathematics content and instructional skill of
20 the staff or volunteers assisting students;

21 (b) Identifying proposed learning strategies to be used, which
22 could include computer-based instructional and skill practice programs
23 and tutoring by adults or other students;

24 (c) Articulating the plan for connection with school mathematics
25 teachers to coordinate student assistance; and

26 (d) Articulating the plan for assessing student and program
27 success.

28 (4) Priority will be given to applicants that propose programs to
29 serve middle school and junior high school students.

30 (5) The office of the superintendent of public instruction shall
31 evaluate program outcomes and report to the governor and the education
32 committees of the legislature on the outcomes of the grants and make
33 recommendations related to program continuation, program modification,
34 and issues related to program sustainability and possible program
35 expansion. An interim report is due November 1, 2008. The final
36 report is due December 1, 2009.

1 wide professional development, guidance in student data interpretation,
2 and using assessment to guide instruction. Each coach shall be
3 assigned to two schools as part of the program.

4 (6) Program participants have the following responsibilities:

5 (a) Mathematics and science coaches shall participate in the coach
6 development institute as well as in coaching support seminars that take
7 place throughout the school year, practice coaching activities as
8 guided by those articulated in the role of the coach in subsection (5)
9 of this section, collect data, and participate in program evaluation
10 activities as requested by the institute pursuant to subsection (7) of
11 this section.

12 (b) School and district administrators in districts in which the
13 mathematics and science coaches are practicing shall participate in
14 program evaluation activities.

15 (7)(a) The Washington State University social and economic sciences
16 research center shall conduct an evaluation of the mathematics and
17 science instructional coach program in this section. Data shall be
18 collected through various instruments including surveys, program and
19 activity reports, student performance measures, observations,
20 interviews, and other processes. Findings shall include an evaluation
21 of the coach development institute, coaching support seminars, and
22 other coach support activities; recommendations with regard to the
23 characteristics required of the coaches; identification of changes in
24 teacher instruction related to coaching activities; and identification
25 of the satisfaction level with coaching activities as experienced by
26 classroom teachers and administrators.

27 (b) The Washington State University social and economic sciences
28 research center shall report its findings to the governor, the office
29 of the superintendent of public instruction, and the education and
30 fiscal committees of the legislature. An interim report is due
31 November 1, 2008. The final report is due December 1, 2009.

32 **Sec. 5.** RCW 28A.660.005 and 2001 c 158 s 1 are each amended to
33 read as follows:

34 (1) The legislature finds and declares:

35 ~~((1))~~ (a) Teacher qualifications and effectiveness are the most
36 important influences on student learning in schools~~((-))~~i

1 ((+2)) (b) Preparation of individuals to become well-qualified,
2 effective teachers must be high quality((-));

3 ((+3)) (c) Teachers who complete high-quality alternative route
4 programs with intensive field-based experience, adequate coursework,
5 and strong mentorship do as well or better than teachers who complete
6 traditional preparation programs((-));

7 ((+4)) (d) High-quality alternative route programs can provide
8 more flexibility and expedience for individuals to transition from
9 their current career to teaching((-));

10 ((+5)) (e) High-quality alternative route programs can help school
11 districts fill subject matter shortage areas and areas with shortages
12 due to geographic location((-));

13 ((+6)) (f) Regardless of route, all candidates for residency
14 teacher certification must meet the high standards required by the
15 state; and

16 (g) Teachers need an adequate background in subject matter content
17 if they are to teach it well, and should hold full, appropriate
18 credentials in those subject areas.

19 (2) The legislature recognizes widespread concerns about the
20 potential for teacher shortages and finds that classified instructional
21 staff in public schools, current certificated staff, and unemployed
22 certificate holders represent a great untapped resource for recruiting
23 ((the)) more teachers ((of the future)) in critical shortage areas.

24 NEW SECTION. Sec. 6. A new section is added to chapter 28A.660
25 RCW to read as follows:

26 (1) The pipeline for paraeducators conditional scholarship program
27 is created. Participation is limited to paraeducators without a
28 college degree who have at least three years of classroom experience.
29 It is anticipated that candidates enrolled in this program will
30 complete their associate of arts degree at a community and technical
31 college in two years or less and become eligible for a mathematics,
32 special education, or English as a second language endorsement via
33 route one in the alternative routes to teacher certification program
34 provided in this chapter.

35 (2) Entry requirements for candidates include district or building
36 validation of qualifications, including three years of successful

1 student interaction and leadership as a classified instructional
2 employee.

3 NEW SECTION. **Sec. 7.** A new section is added to chapter 28A.660
4 RCW to read as follows:

5 (1) The retooling to teach mathematics and science conditional
6 scholarship program is created. Participation is limited to current K-
7 12 teachers and individuals having an elementary education certificate
8 but who are not employed in positions requiring an elementary education
9 certificate. It is anticipated that candidates enrolled in this
10 program will complete the requirements for a mathematics or science
11 endorsement, or both, in two years or less.

12 (2) Entry requirements for candidates include:

13 (a) Current K-12 teachers shall pursue a middle level mathematics
14 or science, or secondary mathematics or science endorsement.

15 (b) Individuals having an elementary education certificate but who
16 are not employed in positions requiring an elementary education
17 certificate shall pursue an endorsement in middle level mathematics or
18 science only.

19 **Sec. 8.** RCW 28A.660.050 and 2004 c 23 s 5 are each amended to read
20 as follows:

21 The ~~((alternative route))~~ conditional scholarship programs ~~((is))~~
22 in this chapter are created under the following guidelines:

23 (1) The programs shall be administered by the higher education
24 coordinating board. In administering the programs, the higher
25 education coordinating board has the following powers and duties:

26 (a) To adopt necessary rules and develop guidelines to administer
27 the programs;

28 (b) To collect and manage repayments from participants who do not
29 meet their service obligations; and

30 (c) To accept grants and donations from public and private sources
31 for the programs.

32 (2) Requirements for participation in the ~~((alternative route))~~
33 conditional scholarship programs are as provided in this subsection
34 (2).

35 (a) The alternative route conditional scholarship program is

1 limited to interns of the partnership grant programs under RCW
2 28A.660.040. In order to receive conditional scholarship awards,
3 recipients shall:

4 (i) Be accepted and maintain enrollment in alternative
5 certification routes through the partnership grant program;

6 (ii) Continue to make satisfactory progress toward completion of
7 the alternative route certification program and receipt of a residency
8 teaching certificate; and

9 (iii) Receive no more than the annual amount of the scholarship,
10 not to exceed eight thousand dollars, for the cost of tuition, fees,
11 and educational expenses, including books, supplies, and transportation
12 for the alternative route certification program in which the recipient
13 is enrolled. The board may adjust the annual award by the average rate
14 of resident undergraduate tuition and fee increases at the state
15 universities as defined in RCW 28B.10.016.

16 (b) The pipeline for paraeducators conditional scholarship program
17 is limited to qualified paraeducators as provided by section 6 of this
18 act. In order to receive conditional scholarship awards, recipients
19 shall:

20 (i) Be accepted and maintain enrollment at a community and
21 technical college for no more than two years and attain an associate of
22 arts degree;

23 (ii) Continue to make satisfactory progress toward completion of an
24 associate of arts degree. This progress requirement is a condition for
25 eligibility into a route one program of the alternative routes to
26 teacher certification program for a mathematics, special education, or
27 English as a second language endorsement; and

28 (iii) Receive no more than the annual amount of the scholarship,
29 not to exceed four thousand dollars, for the cost of tuition, fees, and
30 educational expenses, including books, supplies, and transportation for
31 the alternative route certification program in which the recipient is
32 enrolled. The board may adjust the annual award by the average rate of
33 tuition and fee increases at the state community and technical
34 colleges.

35 (c) The retooling to teach mathematics and science conditional
36 scholarship program is limited to current K-12 teachers and individuals
37 having an elementary education certificate but who are not employed in

1 positions requiring an elementary education certificate as provided by
2 section 7 of this act. In order to receive conditional scholarship
3 awards:

4 (i) Individuals currently employed as teachers shall pursue a
5 middle level mathematics or science, or secondary mathematics or
6 science endorsement; or

7 (ii) Individuals who are certificated with an elementary education
8 endorsement, but not employed in positions requiring an elementary
9 education certificate, shall pursue an endorsement in middle level
10 mathematics or science, or both; and

11 (iii) Individuals shall use one of the pathways to endorsement
12 processes to receive a mathematics or science endorsement, or both,
13 which shall include passing a mathematics or science endorsement test,
14 or both tests, plus observation and completing applicable coursework to
15 attain the proper endorsement; and

16 (iv) Individuals shall receive no more than the annual amount of
17 the scholarship, not to exceed three thousand dollars, for the cost of
18 tuition, test fees, and educational expenses, including books,
19 supplies, and transportation for the endorsement pathway being pursued.

20 (3) The Washington professional educator standards board shall
21 select ~~((interns))~~ individuals to receive conditional scholarships.

22 ~~((3) In order to receive conditional scholarship awards,~~
23 ~~recipients shall be accepted and maintain enrollment in alternative~~
24 ~~certification routes through the partnership grant program, as provided~~
25 ~~in RCW 28A.660.040. Recipients must continue to make satisfactory~~
26 ~~progress towards completion of the alternative route certification~~
27 ~~program and receipt of a residency teaching certificate.))~~

28 (4) For the purpose of this chapter, a conditional scholarship is
29 a loan that is forgiven in whole or in part in exchange for service as
30 a certificated teacher employed in a Washington state K-12 public
31 school. The state shall forgive one year of loan obligation for every
32 two years a recipient teaches in a public school. Recipients ~~((that))~~
33 who fail to continue a course of study leading to residency teacher
34 certification or cease to teach in a public school in the state of
35 Washington in their endorsement area are required to repay the
36 remaining loan principal with interest.

37 (5) Recipients who fail to fulfill the required teaching obligation
38 are required to repay the remaining loan principal with interest and

1 any other applicable fees. The higher education coordinating board
2 shall adopt rules to define the terms for repayment, including
3 applicable interest rates, fees, and deferments.

4 ~~(6) ((To the extent funds are appropriated for this specific
5 purpose, the annual amount of the scholarship is the annual cost of
6 tuition; fees; and educational expenses, including books, supplies, and
7 transportation for the alternative route certification program in which
8 the recipient is enrolled, not to exceed eight thousand dollars. The
9 board may adjust the annual award by the average rate of resident
10 undergraduate tuition and fee increases at the state universities as
11 defined in RCW 28B.10.016.~~

12 ~~(7))~~ The higher education coordinating board may deposit all
13 appropriations, collections, and any other funds received for the
14 program in this chapter in the ~~((student loan))~~ future teachers
15 conditional scholarship account authorized in RCW ~~((28B.102.060))~~
16 28B.102.080.

17 **Sec. 9.** RCW 28B.102.080 and 2004 c 58 s 9 are each amended to read
18 as follows:

19 (1) The future teachers conditional scholarship account is created
20 in the custody of the state treasurer. An appropriation is not
21 required for expenditures of funds from the account. The account is
22 not subject to allotment procedures under chapter 43.88 RCW except for
23 moneys used for program administration.

24 (2) The board shall deposit in the account all moneys received for
25 the future teachers conditional scholarship and loan repayment program
26 and for conditional loan programs under chapter 28A.660 RCW. The
27 account shall be self-sustaining and consist of funds appropriated by
28 the legislature for the future teachers conditional scholarship and
29 loan repayment program, private contributions to the program, ~~((and))~~
30 receipts from participant repayments from the future teachers
31 conditional scholarship and loan repayment program, and conditional
32 loan programs established under chapter 28A.660 RCW. Beginning July 1,
33 2004, the board shall also deposit into the account: (a) All funds
34 from the institution of higher education loan account that are
35 traceable to any conditional scholarship program for teachers or
36 prospective teachers established by the legislature before June 10,
37 2004; and (b) all amounts repaid by individuals under any such program.

1 (3) Expenditures from the account may be used solely for
2 conditional loans and loan repayments to participants in the future
3 teachers conditional scholarship and loan repayment program established
4 by this chapter, conditional scholarships for participants in programs
5 established in chapter 28A.660 RCW, and costs associated with program
6 administration by the board.

7 (4) Disbursements from the account may be made only on the
8 authorization of the board.

9 NEW SECTION. Sec. 10. A new section is added to chapter 28B.10
10 RCW to read as follows:

11 (1) By September 1, 2008, the state board for community and
12 technical colleges, the council of presidents, the higher education
13 coordinating board, and the office of the superintendent of public
14 instruction, under the leadership of the transition math project and in
15 collaboration with representatives of public two and four-year
16 institutions of higher education, shall jointly revise the Washington
17 mathematics placement test to serve as a common college readiness test
18 for all two and four-year institutions of higher education.

19 (2) The revised mathematics college readiness test shall be
20 implemented by all public two and four-year institutions of higher
21 education by September 1, 2009. All public two and four-year
22 institutions of higher education must use a common performance standard
23 on the mathematics placement test for purposes of determining college
24 readiness in mathematics. The performance standard must be publicized
25 to all high schools in the state.

26 NEW SECTION. Sec. 11. A new section is added to chapter 28A.320
27 RCW to read as follows:

28 (1) Subject to funding appropriated for this purpose and beginning
29 in the fall of 2009, school districts shall provide all high school
30 students enrolled in the district the option of taking the mathematics
31 college readiness test developed under section 10 of this act once at
32 no cost to the students. Districts shall encourage, but not require,
33 students to take the test in their junior or senior year of high
34 school.

35 (2) Subject to funding appropriated for this purpose, the office of

1 the superintendent of public instruction shall reimburse each district
2 for the costs incurred by the district in providing students the
3 opportunity to take the mathematics placement test.

4 NEW SECTION. **Sec. 12.** The legislature finds that knowledge,
5 skills, and opportunities in mathematics, science, and technology
6 should be increased for all students in Washington. The legislature
7 intends to foster capacity between and among the educational sectors to
8 enable continuous and sustainable growth of the learning and teaching
9 of mathematics, science, and technologies. The legislature intends to
10 foster high quality mathematics, science, and technology programs to
11 increase the number of students in the kindergarten through twelfth
12 grade pipeline who are prepared and aspire to continue in the areas of
13 mathematics, science, and technology, whether it be at a college,
14 university, or in the workforce.

15 **Sec. 13.** RCW 28A.230.130 and 2003 c 49 s 2 are each amended to
16 read as follows:

17 (1) All public high schools of the state shall provide a program,
18 directly or in cooperation with a community college or another school
19 district, for students whose educational plans include application for
20 entrance to a baccalaureate-granting institution after being granted a
21 high school diploma. The program shall help these students to meet at
22 least the minimum entrance requirements under RCW 28B.10.050.

23 (2) All public high schools of the state shall provide a program,
24 directly or in cooperation with a community or technical college, a
25 skills center, an apprenticeship committee, or another school district,
26 for students who plan to pursue career or work opportunities other than
27 entrance to a baccalaureate-granting institution after being granted a
28 high school diploma. These programs may:

29 (a) Help students demonstrate the application of essential academic
30 learning requirements to the world of work, occupation-specific skills,
31 knowledge of more than one career in a chosen pathway, and
32 employability and leadership skills; and

33 (b) Help students demonstrate the knowledge and skill needed to
34 prepare for industry certification, and/or have the opportunity to
35 articulate to postsecondary education and training programs.

1 (3) Within funds specifically appropriated therefor, a middle
2 school that receives approval from the office of the superintendent of
3 public instruction to provide a career and technical program directly
4 to students shall receive funding at the same rate as a high school
5 operating a similar program. Additionally, a middle school that
6 provides a hands-on experience in math and science with an integrated
7 curriculum of academic content and career and technical education, and
8 includes a career and technical education exploratory component shall
9 also qualify for the career and technical education funding.

10 (4) The state board of education, upon request from local school
11 districts, may grant waivers from the requirements to provide the
12 program described in subsections (1) and (2) of this section for
13 reasons relating to school district size and the availability of staff
14 authorized to teach subjects which must be provided. In considering
15 waiver requests related to programs in subsection (2) of this section,
16 the state board of education shall consider the extent to which the
17 school district has offered such programs before the 2003-04 school
18 year.

19 **Sec. 14.** RCW 28A.230.130 and 2006 c 263 s 407 are each amended to
20 read as follows:

21 (1) All public high schools of the state shall provide a program,
22 directly or in cooperation with a community college or another school
23 district, for students whose educational plans include application for
24 entrance to a baccalaureate-granting institution after being granted a
25 high school diploma. The program shall help these students to meet at
26 least the minimum entrance requirements under RCW 28B.10.050.

27 (2) All public high schools of the state shall provide a program,
28 directly or in cooperation with a community or technical college, a
29 skills center, an apprenticeship committee, or another school district,
30 for students who plan to pursue career or work opportunities other than
31 entrance to a baccalaureate-granting institution after being granted a
32 high school diploma. These programs may:

33 (a) Help students demonstrate the application of essential academic
34 learning requirements to the world of work, occupation-specific skills,
35 knowledge of more than one career in a chosen pathway, and
36 employability and leadership skills; and

1 (b) Help students demonstrate the knowledge and skill needed to
2 prepare for industry certification, and/or have the opportunity to
3 articulate to postsecondary education and training programs.

4 (3) Within funds specifically appropriated therefor, a middle
5 school that receives approval from the office of the superintendent of
6 public instruction to provide a career and technical program directly
7 to students shall receive funding at the same rate as a high school
8 operating a similar program. Additionally, a middle school that
9 provides a hands-on experience in math and science with an integrated
10 curriculum of academic content and career and technical education, and
11 includes a career and technical education exploratory component shall
12 also qualify for the career and technical education funding.

13 NEW SECTION. Sec. 15. A new section is added to chapter 28A.300
14 RCW to read as follows:

15 The superintendent of public instruction shall provide support for
16 statewide coordination for math, science, and technology, including
17 employing a statewide director for math, science, and technology. The
18 duties of the director shall include, but not be limited to:

19 (1) Within funds specifically appropriated therefor, obtain a
20 statewide license, or otherwise obtain and disseminate, an interactive,
21 project-based high school and middle school technology curriculum that
22 includes a comprehensive professional development component for
23 teachers and, if possible, counselors, and also includes a systematic
24 program evaluation. The curriculum must be distributed to all school
25 districts, or as many as feasible, by the 2007-08 school year;

26 (2) Within funds specifically appropriated therefor, supporting a
27 public-private partnership to assist school districts with implementing
28 an ongoing, inquiry-based science program that is based on a research-
29 based model of systemic reform and aligned with the Washington state
30 science grade level expectations;

31 (3) Within funds specifically appropriated therefor, supporting a
32 public-private partnership to provide enriching opportunities in
33 mathematics, engineering, and science for underrepresented students in
34 grades kindergarten through twelve using exemplary materials and
35 instructional approaches;

36 (4) In an effort to increase precollege and prework interest in
37 math, science, and technology fields, in collaboration with the

1 community and technical colleges, the four-year institutions of higher
2 education, and the workforce training and education coordinating board,
3 conducting outreach efforts to attract middle and high school students
4 to careers in math, science, and technology and to educate students
5 about the coursework that is necessary to be adequately prepared to
6 succeed in these fields;

7 (5) Coordinating youth opportunities in math, science, and
8 technology, including facilitating student participation in school
9 clubs, state-level fairs, national competitions, and encouraging
10 partnerships between students and university faculty or industry to
11 facilitate such student participation;

12 (6) Developing and maintaining public-private partnerships to
13 generate business and industry assistance to accomplish the following:

14 (a) Increasing student engagement and career awareness, including
15 increasing student participation in the youth opportunities in
16 subsection (5) of this section;

17 (b) Creation and promotion of student scholarships, internships,
18 and apprenticeships;

19 (c) Provision of relevant teacher experience and training,
20 including on-the-job professional development opportunities;

21 (d) Upgrading kindergarten through twelfth grade school equipment
22 and facilities to support high quality math, science, and technology
23 programs;

24 (7) Assembling a cadre of inspiring speakers employed or
25 experienced in the relevant fields to speak to kindergarten through
26 twelfth grade students to demonstrate the breadth of the opportunities
27 in the relevant fields as well as share the types of coursework that is
28 necessary for someone to be successful in the relevant field;

29 (8) Providing technical assistance to schools and school districts,
30 including working with counselors in support of the math, science, and
31 technology programs; and

32 (9) Reporting annually to the legislature about the actions taken
33 to provide statewide coordination for math, science, and technology.

34 NEW SECTION. **Sec. 16.** A new section is added to chapter 28A.655
35 RCW to read as follows:

36 (1) Within funds specifically appropriated therefor, by December 1,
37 2008, the superintendent of public instruction shall develop essential

1 academic learning requirements and grade level expectations for
2 educational technology literacy and technology fluency that identify
3 the knowledge and skills that all public school students need to know
4 and be able to do in the areas of technology and technology literacy.
5 The development process shall include a review of current standards
6 that have been developed or are used by other states and national and
7 international technology associations. To the maximum extent possible,
8 the superintendent shall integrate goal four and the knowledge and
9 skill areas in the other goals in the technology essential academic
10 learning requirements.

11 (a) As used in this section, "technology literacy" means the
12 ability to responsibly, creatively, and effectively use appropriate
13 technology to communicate; access, collect, manage, integrate, and
14 evaluate information; solve problems and create solutions; build and
15 share knowledge; and improve and enhance learning in all subject areas
16 and experiences.

17 (b) Technology fluency builds upon technology literacy and is
18 demonstrated when students: Apply technology to real-world
19 experiences; adapt to changing technologies; modify current and create
20 new technologies; and personalize technology to meet personal needs,
21 interests, and learning styles.

22 (2)(a) Within funds specifically appropriated therefor, the
23 superintendent shall obtain or develop education technology assessments
24 that may be administered in the elementary, middle, and high school
25 grades to assess the essential academic learning requirements for
26 technology. The assessments shall be designed to be classroom or
27 project-based so that they can be embedded in classroom instruction and
28 be administered and scored by school staff throughout the regular
29 school year using consistent scoring criteria and procedures. By the
30 2010-11 school year, these assessments shall be made available to
31 school districts for the districts' voluntary use. If a school
32 district uses the assessments created under this section, then the
33 school district shall notify the superintendent of public instruction
34 of the use. The superintendent shall report annually to the
35 legislature on the number of school districts that use the assessments
36 each school year.

37 (b) Beginning December 1, 2010, and annually thereafter, the

1 superintendent of public instruction shall provide a report to the
2 relevant legislative committees regarding the use of the assessments.

3 NEW SECTION. **Sec. 17.** A new section is added to chapter 28B.76
4 RCW to read as follows:

5 As part of the state needs assessment process conducted by the
6 board in accordance with RCW 28B.76.230, the board shall assess the
7 need for additional baccalaureate degree programs in Washington that
8 specialize in teacher preparation in mathematics, science, and
9 technology. If the board determines that there is a need for
10 additional programs, then the board shall encourage the appropriate
11 institutions of higher education or institutional sectors to create
12 such a program.

13 NEW SECTION. **Sec. 18.** Beginning September 1, 2007, through
14 December 1, 2008, the state board of education shall provide a status
15 report at the beginning of each calendar quarter on the activities and
16 progress in completing the requirements under section 1 of this act.
17 The report shall be provided to the governor and the members of the
18 education committees of the senate and the house of representatives.

19 NEW SECTION. **Sec. 19.** Captions used in this act are not any part
20 of the law.

21 NEW SECTION. **Sec. 20.** Section 13 of this act expires September 1,
22 2009.

23 NEW SECTION. **Sec. 21.** Section 14 of this act takes effect
24 September 1, 2009.

25 NEW SECTION. **Sec. 22.** Sections 1 and 2 of this act are necessary
26 for the immediate preservation of the public peace, health, or safety,
27 or support of the state government and its existing public
28 institutions, and take effect immediately."

ADOPTED 4/11/07

1 On page 1, line 1 of the title, after "education;" strike the
2 remainder of the title and insert "amending RCW 28A.660.005,
3 28A.660.050, 28B.102.080, 28A.230.130, and 28A.230.130; adding new
4 sections to chapter 28A.305 RCW; adding new sections to chapter 28A.300
5 RCW; adding a new section to chapter 28A.415 RCW; adding new sections
6 to chapter 28A.660 RCW; adding a new section to chapter 28B.10 RCW;
7 adding a new section to chapter 28A.320 RCW; adding a new section to
8 chapter 28A.655 RCW; adding a new section to chapter 28B.76 RCW;
9 creating new sections; providing an effective date; providing
10 expiration dates; and declaring an emergency."

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